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KAY  
10-25-02

Attorney Docket No. 44342.010400

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: MATSUYAMA, S., et al

SERIAL NO.: 09/913,521

Group Art Unit: 1635

FILED: August 13, 2001

Examiner: ANGELL, Jon E.

FOR: CHAIN-SHORTENED POLYNUCLEOTIDE AND METHOD FOR  
PREPARATION THEREOF

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AMENDMENT AND RESPONSE UNDER 37 CFR 1.111

In response to the USPTO Official Action mailed on July 10, 2002, please amend  
the above identified application as follows:

In the Claims

Please amend claims 1, 18 and 27 as follows:

1. (Amended) A chain-shortened polynucleotide or salt thereof, comprising  
phosphodiester bonds, wherein from about 0.1 percent to 3 percent of the phosphodiester  
bonds are 2'-5' phosphodiester bonds.

18. (Amended) A composition comprising a complex formed from a carrier  
effective for introducing a medicament into a cell and a chain-shortened polynucleotide  
or salt thereof as an essential ingredient, wherein the chain-shortened polynucleotide or  
salt thereof comprises phosphodiester bonds, such that from about 0.1 percent to 3  
percent of the phosphodiester bonds are 2'-5' phosphodiester bonds.

27. (Amended) A method for preparing a polynucleotide or salt thereof in  
which the proportion of a 2'-5' phosphodiester bond is up to 3% based on the total  
phosphodiester bonds and the average chain length is between 0.1 k bases and 1 k bases